PHILIPS

Business Display Solutions - Institutional Television
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32”- 42” Mirror TV

Installation Guide for
32PM8822 (BDL3221M)
42PM8822 (BDL4221M)

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1. Introduction

The Philips Mirror TV combines an interactive flat LCD TV together with the reflectivity of a mirror to provide an innovative 2-in-1 product for the customer.

This document covers the 32”-42” Landscape and portrait Mirror TV (model number 32PM8822 / 42PM8822)

The Mirror TV product utilizes the existing LCD TV technology of the Philips 32”-42” LCD models, and therefore it provides many of the same features. For familiarity purposes, the existing Directions For Use (DFU) documentation for the 32”- 42” LCD models can also be used for the Mirror TV. Some differences may apply, and these differences will be covered in this document.

The user is advised to read this document first in order to understand what are the differences between a Mirror TV and the 32”- 42” LCD TV on which the Mirror TV is based. The user should read through the DFU of the 32”- 42” LCD TV (provided with this product) for greater details of the TV specifics and functions.

Once the differences are understood, the rest of the information on connectivity, safety, remote-control usage, and so forth are the same as that in the DFU of the 32”- 42” LCD TV.

This document describes various elements specific to the Mirror TV application, including:

- How to replace the decorative frame of the 32”- 42” Mirror TV
- Technical specifications of main components
- Connectivity overview

Instructions on how to wall-mount the 32”- 42” Mirror TV are provided in the Mirror TV Addendum Sheet that is packed into each 32”- 42” Mirror TV box.
Refer to that document for the mounting details.

It is important to note that the application of the mirror is intended for decorative in-door usage only and not designed for usage in wet and damp environments like bathrooms.

The information in this document is subject to change. Accessories are subject to availability.
Due to the dual functionality of the Mirror TV (mirror & display) the Light Sensor function is put OFF with factory setup. It is important not to switch ON.

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2. Safety Precautions And Cleaning Procedures

The safety precautions and cleaning procedures for the Mirror TV are similar to that of the 32"- 42" LCD TV, and can be referenced to the respective sections in the DFU of that product. Please refer to the DFU (included with your product) for more information.

However, to ensure that the Mirror TV continues to provide excellent and durable performance, the following safety precautions are strongly advised:

1. Do not shift or move the Mirror TV when it is powered on.
2. Do not touch, push, or rub the surface of the mirror glass with any sharp or hard objects.
3. For proper ventilation, provide at least 5 cm from the top and bottom of the Mirror TV back panel to allow for a free flow of air.
4. If the Mirror TV unit is mounted into an enclosed space (for example, in-wall mounting), it is strongly recommended to provide ventilation slots at the top and bottom to allow for greater airflow and better ventilation. Without any ventilation slots, the ambient temperature should not exceed 25 degrees Celsius. It is recommended to create ventilation slots of *70cm x 2cm* at both the top and bottom of the wall, which would allow ambient temperatures up to 35 degrees Celsius.
5. Do not place the Mirror TV near a radiator or other sources of heat, or near areas where it can be exposed to rain. The Mirror TV complies with the general safety standards of consumer products.
6. It is also advisable not to place the Mirror TV under bright lighting or direct sunlight, as this could adversely affect the brightness of the LCD display and the overall quality of the picture.

To ensure that the Mirror TV continues to provide excellent picture and mirror quality, the following cleaning procedures are suggested:

1. To avoid possible shock hazard, it is advised to power off and unplug the Mirror TV before cleaning.
2. To clean the surface from dust, wipe it gently with an absorbent cotton cloth or other soft material (like chamois). Avoid abrasive materials or wearing jeweled adornments such as bracelets or rings, which may scratch the mirror glass surface. Use even, easy vertical strokes when cleaning.
3. Do NOT use acetone, toluene, alcohol, or other liquid or aerosol cleaners to clean the surface of the glass.
4. Wipe off any form of water from the screen as soon as possible. Be careful of condensation when temperature changes occur, as condensation can cause damage to the electrical parts and LCD screen.
5. If possible, occasionally vacuum the ventilation holes or slots in the back cover of the Mirror TV.

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3. Guidelines on Installing the Mirror TV

Before installing the Mirror TV, the following considerations should be taken into account to ensure that the best viewing experience is achieved.

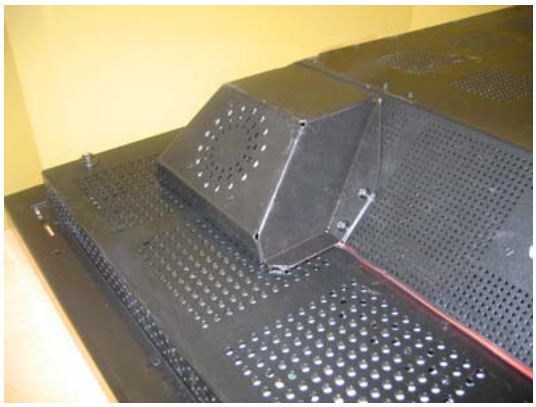
Avoidance of Reflections

Aside from selecting an aesthetically pleasing location for the set, avoidance of reflections from bright light sources (such as windows or light fittings) in the mirror in the viewing direction is very important when the TV is being viewed. In this regard, the location of both the viewer and the viewing direction are important when deciding where to place a MiraVision set in a room.

Reflection of bright background light sources should also be avoided when the MiraVision set is used as a mirror. For mirror purposes, it is recommended to place light sources (such as table-top lamps) to the side of the MiraVision set, thereby lighting the subject that is being reflected by the mirror.

Audio Requirements

MiraVision sets have mounted on loudspeakers located at the rear of the set.



Depending on the location of the MiraVision set in a room, it may prove worthwhile to consider the use of external loudspeakers. These can be connected to the MiraVision set via the speaker terminals at the rear. External speakers can be used when mounting circumstances restrict the sound output of the onboard speakers (example, when mounting the MiraVision in-wall).

Refer to the section *External Speaker Connectors* in this document for more information on the use of the external loudspeakers.

4. Placement the Decorative Frame

The Mirror TV is designed to be flexible and allow customers to change the decorative frame according to their tastes. Before replacing the standard decorative frame with a custom frame, please take note of the following:

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Important points to observe when changing decorative frames

1. It is strongly recommended that this operation be conducted in a dust-free environment. This will help to ensure the continued quality of the Mirror TV display after the new custom frame has been attached.

2. The design of the new decorative frame must conform to certain dimension guidelines to ensure that it will attach securely to the steel mounting frame of the Mirror TV. For the dimensions, refer to the sections *Custom Decorative Frame Profile* and *mounting Frame Dimensions for Mirror TV* later in this document.

3. Any new custom decorative frame should conform to the following guidelines:

    a. The new custom decorative frame should provide a hole to be able to place the plastic Infrared receiver (located at the lower right portion of the Mirror TV original décor frame) as this could interfere with the performance of the Mirror TV Remote Control.

4. The same decorative frames can be be re-used multiple times, as the clicking device on the mounting frame is suitable for multiple usage. Any changes to the Mirror TV, including the replacement of the decorative frames, is performed at the customer's own risk. Therefore it is strongly recommended that the services of a professional installer be used to make these changes.

Directions on changing the Mirror TV decorative frames

To replace the existing decorative frame with a new frame, follow these directions:

1. At the beginning the Mirror TV will hang on the wall

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2. Pull forward one side of decorative frame with light force. The clicking devices will unlatch.
   Remove the complete mounting frame including decorative frame.

1st

2nd

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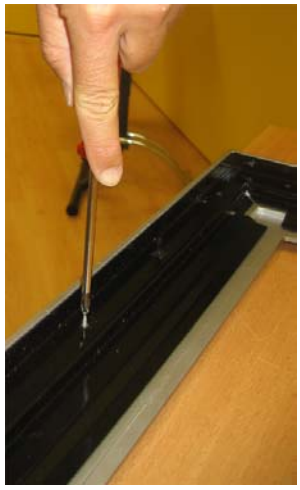
Unscrew the decorative frame mounting frame.
Lift of decorative frame from mounting frame, beware of plastic tube for IR. Remove the tube by pushing it out.

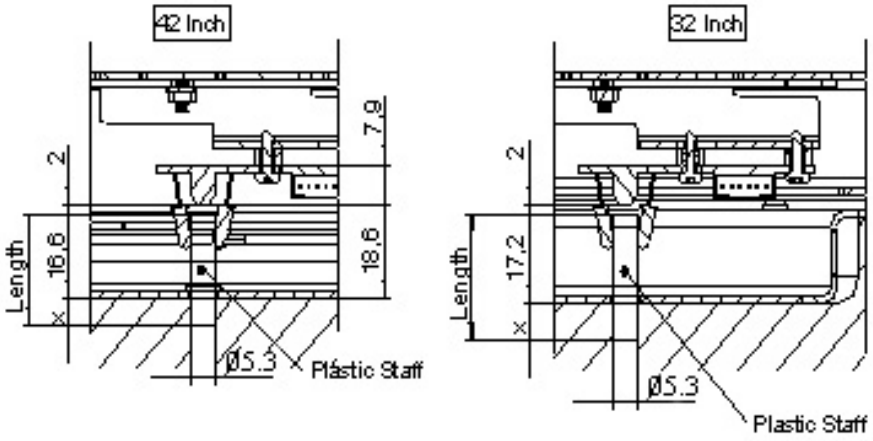
1st



2nd

3th

3. Place new decorative frame on mounting frame, dril hole ∅5.3 mm for plastic tube for IR. Use hole in metal mounting frame as templete be sure to keep an 90° angle towards the metal frame in both directions.
   The plastic tube make sure the tube sticks out 16.6 (17.2)mm inside the metal mounting frame. Screw metal mounting frame on decorative frame.



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4. Place the new decorative frame/with mounting frame on top of mirror TV. Be sure you centre it rigth.
   Push decorative frame gently down from on side to the other. The clicking device will pull the decorative frame in it place.
   You can lift the complete set, make sure that you hold it by the back frame, and not by the decorative/mounting frame.
   To prevent the clicking devices to unlatching.

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5. Technical Specifications of Mirror TV

This section will provide information on the physical dimensions of the Mirror TV, allowing customers to use the product in many ways (such as to create new custom decorative frames, for example)4.

5.1. Dimensional information

The table below contains the dimensional information of the various models:

Model no.	W (mm/ inches)	H (mm/ inches)	D (mm/inches)
32" landscape	888.9 / 35.0	575.4 / 22.66	140 / 5.51
32" portrait	575.4 / 22.66	888.9 / 35.0	140 / 5.51
42" landscape	1116.9 / 43.97	688.8 / 27.12	159.9 / 6.30
42" portrait	688.8 / 27.12	1116.9 / 43.97	159.9 / 6.30

Legend:

W: Width *H*: Height *D*: Depth

5.2. Weight information

The following table contains the weight information of the Mirror TV:

Mirror TV Model no.	Weight (kg) (Mirror TV with decorative frame)
32"	24.5
42"	40

6. Mirror TV Connectivity

The Mirror TV provides a full host of connectivity options for the user. These connector panels are similar to the Philips 32"- 42" LCD TV and therefore the information on how to utilize these connectors can be found in their respective DFU documentation. Please refer to the DFU (included with your product) for more information.

The Mirror TV is different from the 32"- 42" LCD TV in the following aspects:

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6.1 Mirror TV – External Speaker Connectors

The Mirror TV provides outputs to connect build on/remote speakers. Refer to the following picture:

- To connect build on/remote speakers to the Mirror TV, follow these directions:
  - Turn off the Mirror TV and unplug the mains power cord
  - Connect the cables from the external speakers to the speaker connectors on the Mirror TV
  - Secure the speaker cables by fastening the latches of the external speaker connector
  - Connect the mains power cord back into the power outlet and turn on the Mirror TV

- To toggle the audio output between the internal speakers and the external speakers, flip the Internal/External Speaker switch.

Important points to note when connecting external speakers

- To ensure that the correct types of external speakers are connected to the Mirror TV, refer to the chart below:

Mirror TV Model	Impedance	Power
32" - 42"	8 Ohms	15 W

- When connecting remote speakers, take extra precaution to ensure that the speaker impedance is correct and to prevent possible shorting of the speaker terminals. Incorrect use may cause damage to the audio amplifier of the Mirror TV

- To remove the remote or build on speakers, ensure that the power to the Mirror TV is turned off, before removing the speakers from the connectors.

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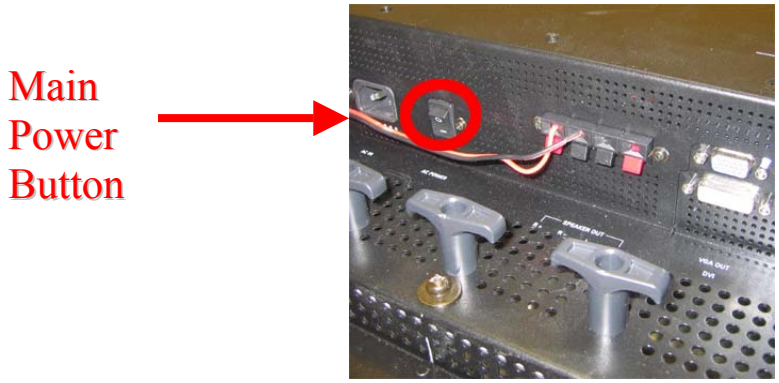
6.2 Mirror TV – Main Power Button

The main power button of the Mirror TV is located differently as compared to the conventional 32"- 42" LCD TV. It is located on the side of the back plate of the Mirror TV. Refer to the following picture:



Important points to observe when operating the Mirror TV that is in-wall mounted

If the Mirror TV is mounted into a wall recess, the main power button may not be easily accessible. In such a scenario, it is advised that:

- All connections and fine-tuning of TV settings be completed before the Mirror TV is mounted into the wall recess.
- This means that the Mirror TV should be connected to the power mains, and switched on using the Main Power button. With the Mirror TV switched on, configure the required TV settings.
- After the settings have been configured, do NOT switch off the Mirror TV via the Main Power button. Instead, set the Mirror TV to 'standby' mode via the Remote Control unit
- When the Mirror TV is now powered down in 'standby' mode, turn off the power mains. Disconnect the Mirror TV from the power mains, and proceed to mount the Mirror TV.
- Once the Mirror TV is mounted properly, reconnect the power mains and turn on the power mains switch. The Mirror TV should be in 'standby' mode.
- To turn on the Mirror TV, use the Remote Control to wake the Mirror TV from 'standby' mode. Subsequent control of the Mirror TV (including switching on/off) should be via the Remote Control.

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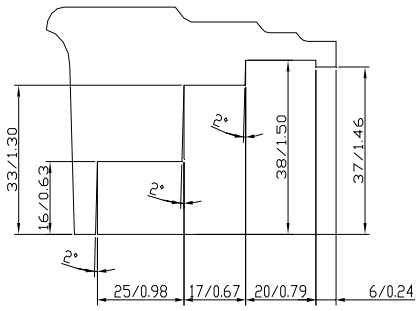
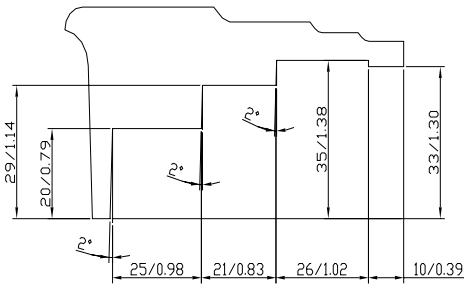
Annex A Custom Decorative Frame Profile

Provided below are the recommended dimensions for the design and construction of custom decorative frames for the Mirror TV. (dimensions in mm/inches)

Decorative frame profile for 32”





Decorative frame profile for 42”

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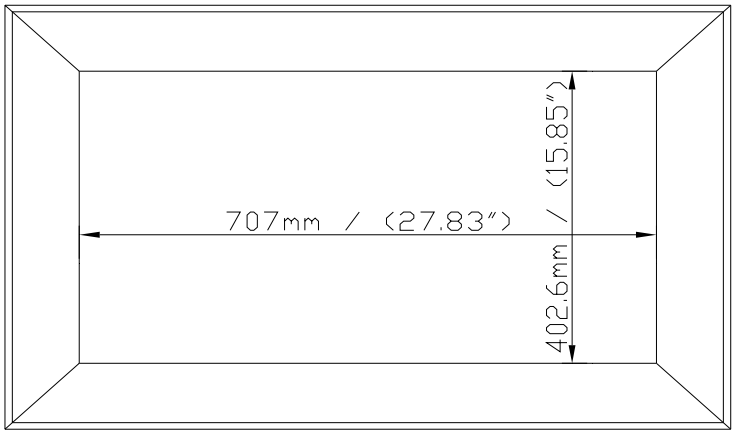
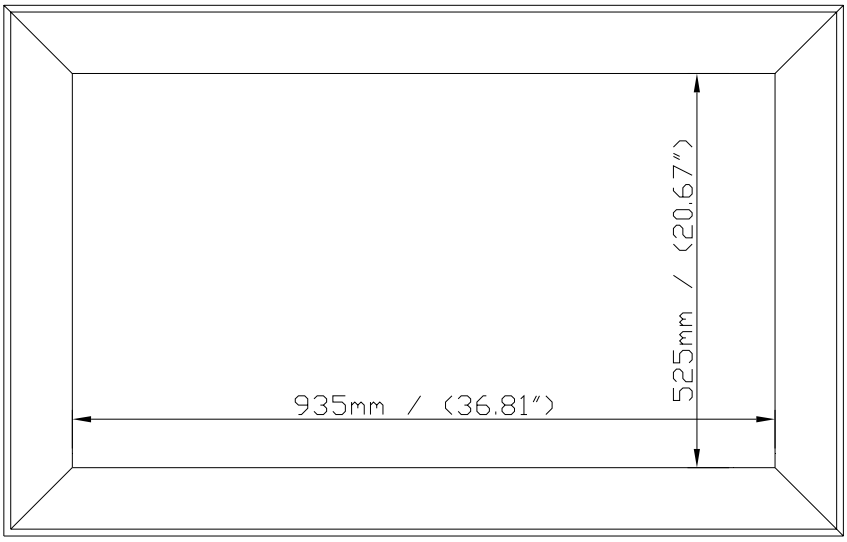
Annex B Decorative Frame Dimensions for Mirror TV

Provided below is the decorative frame dimensions for the 32”- 42” Landscape model of the Mirror TV.

32” Landscape Mirror TV



42” Landscape Mirror TV



Annex C

Wall Mounting the Mirror TV landscape/portrait

Follow these steps to mount the Mirror TV onto the wall.

1. Secure the Wall mount bracket onto the wall, as shown:

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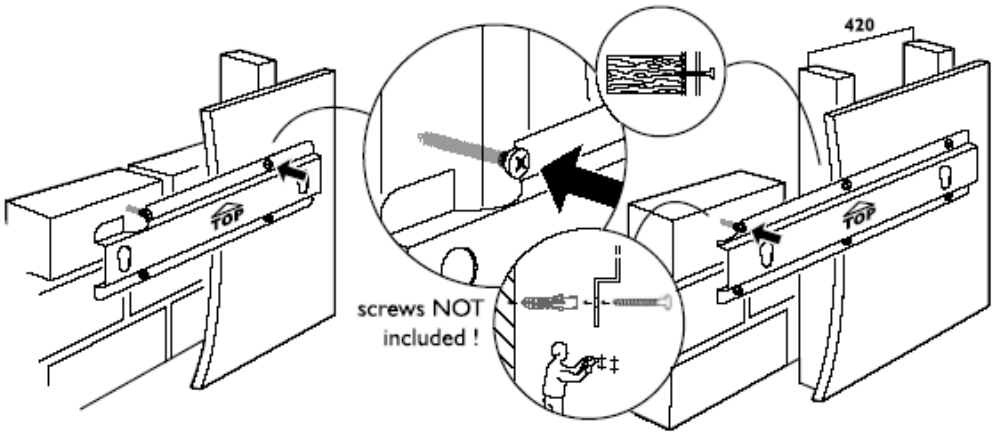
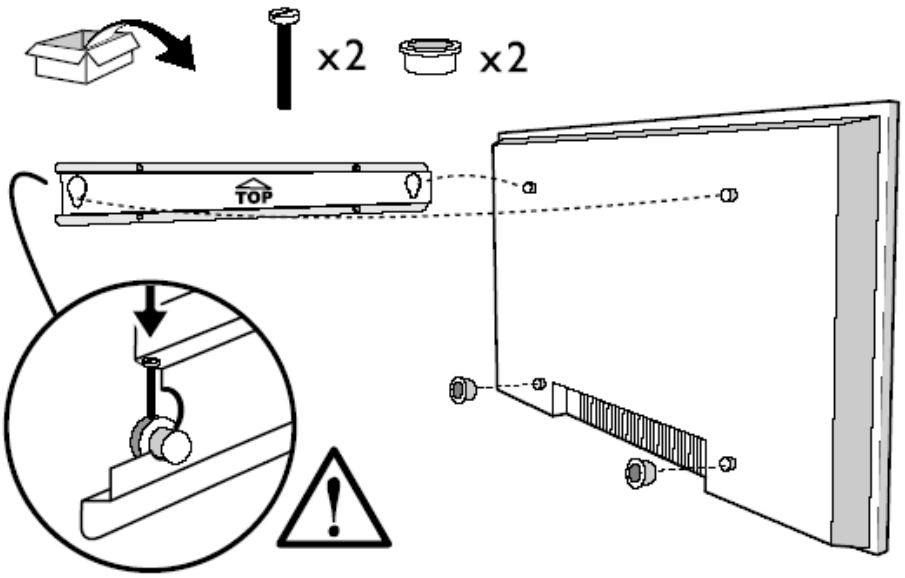
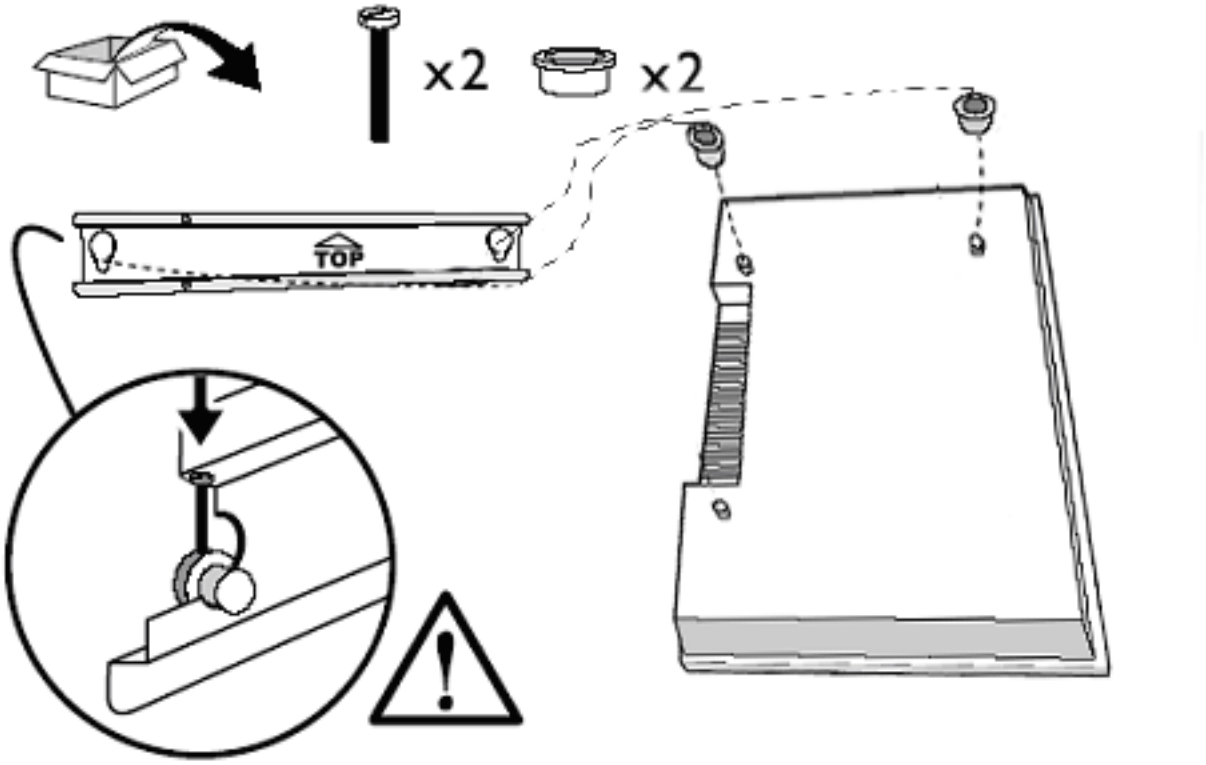
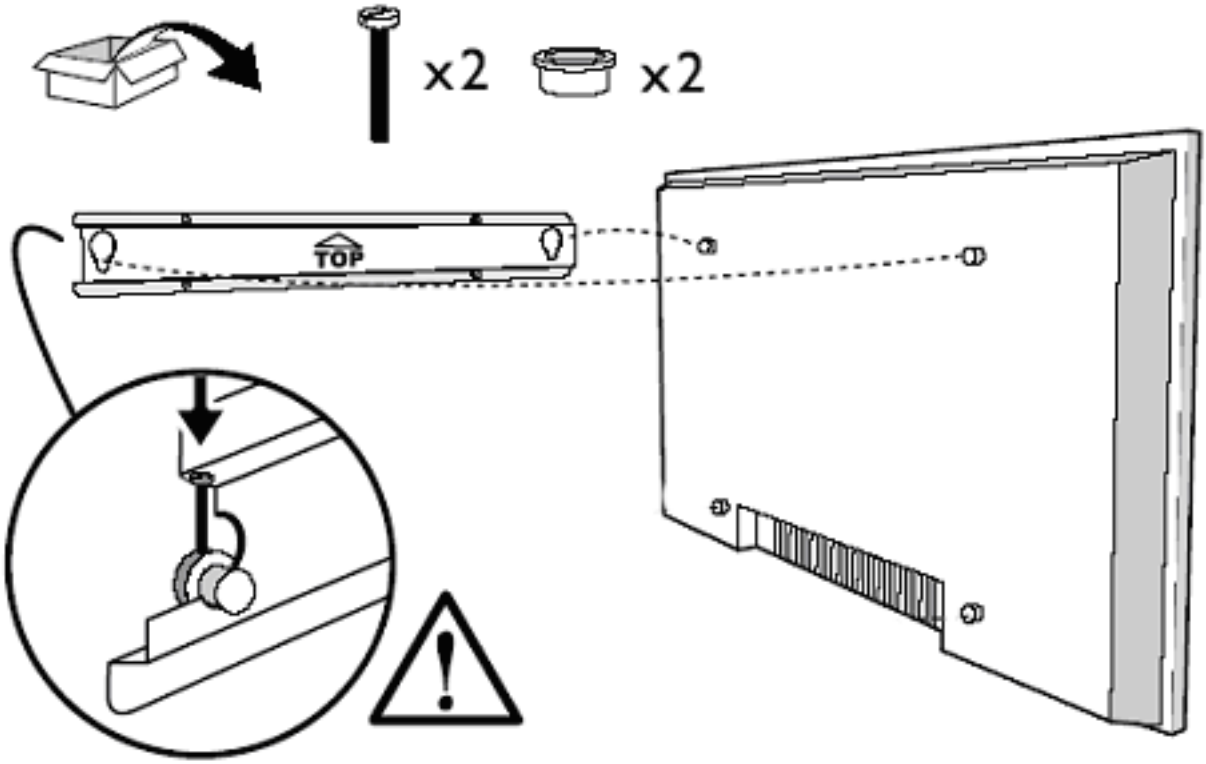


2. Secure the Mirror TV onto the Wall mount bracket, as shown:





Portrait



Landscape

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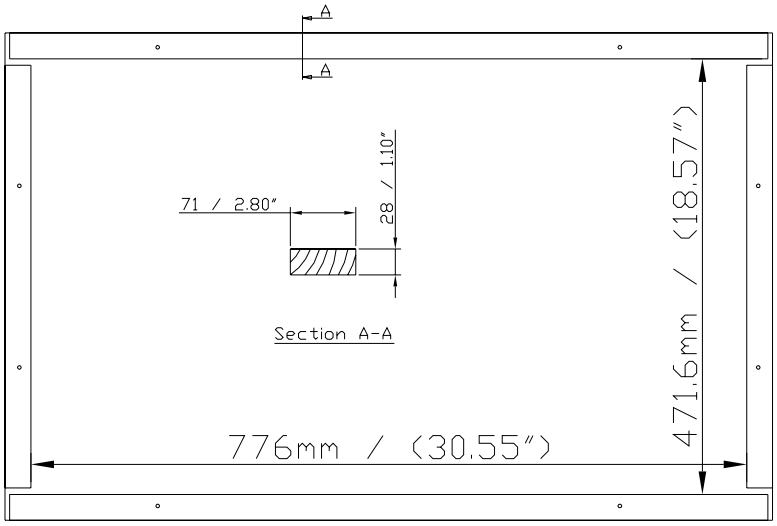
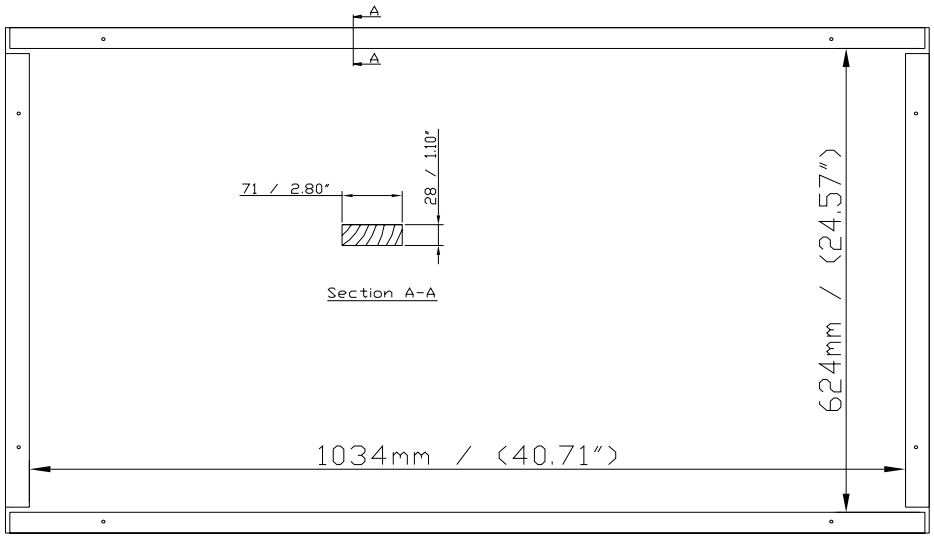
Annex D Recessed Wall Mounting the Mirror TV

1. Required measurements of the wall

Wooden frame for 32” (not included).



Wooden frame for 42” (not included).



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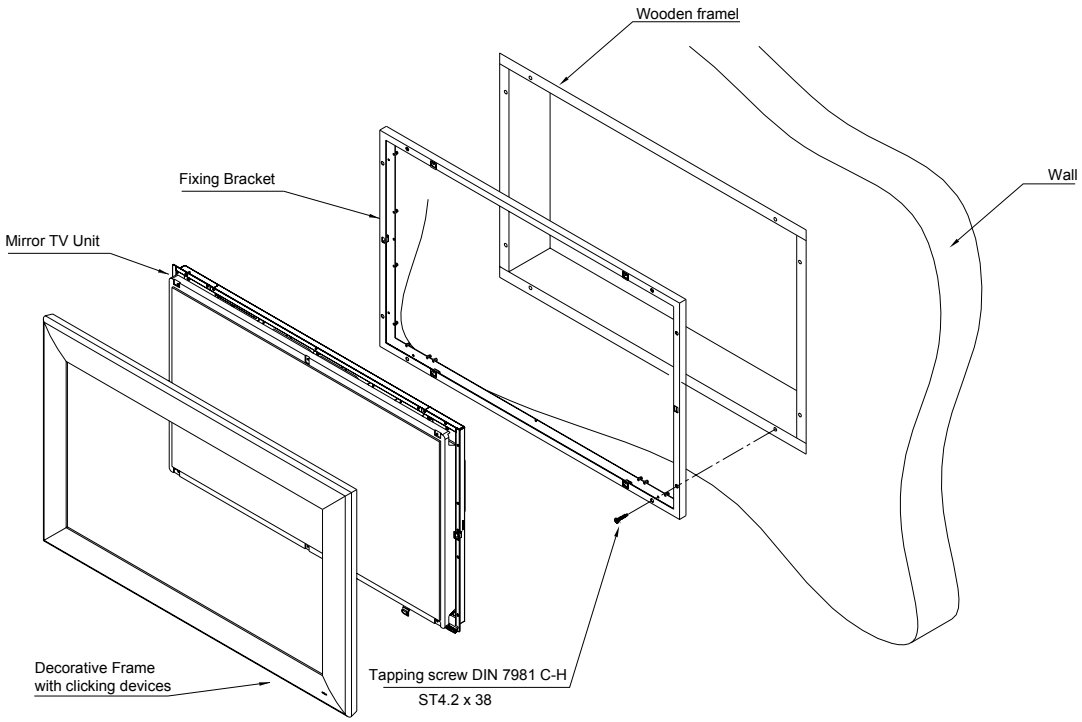
2. Wall fixing to be installled according drawing.



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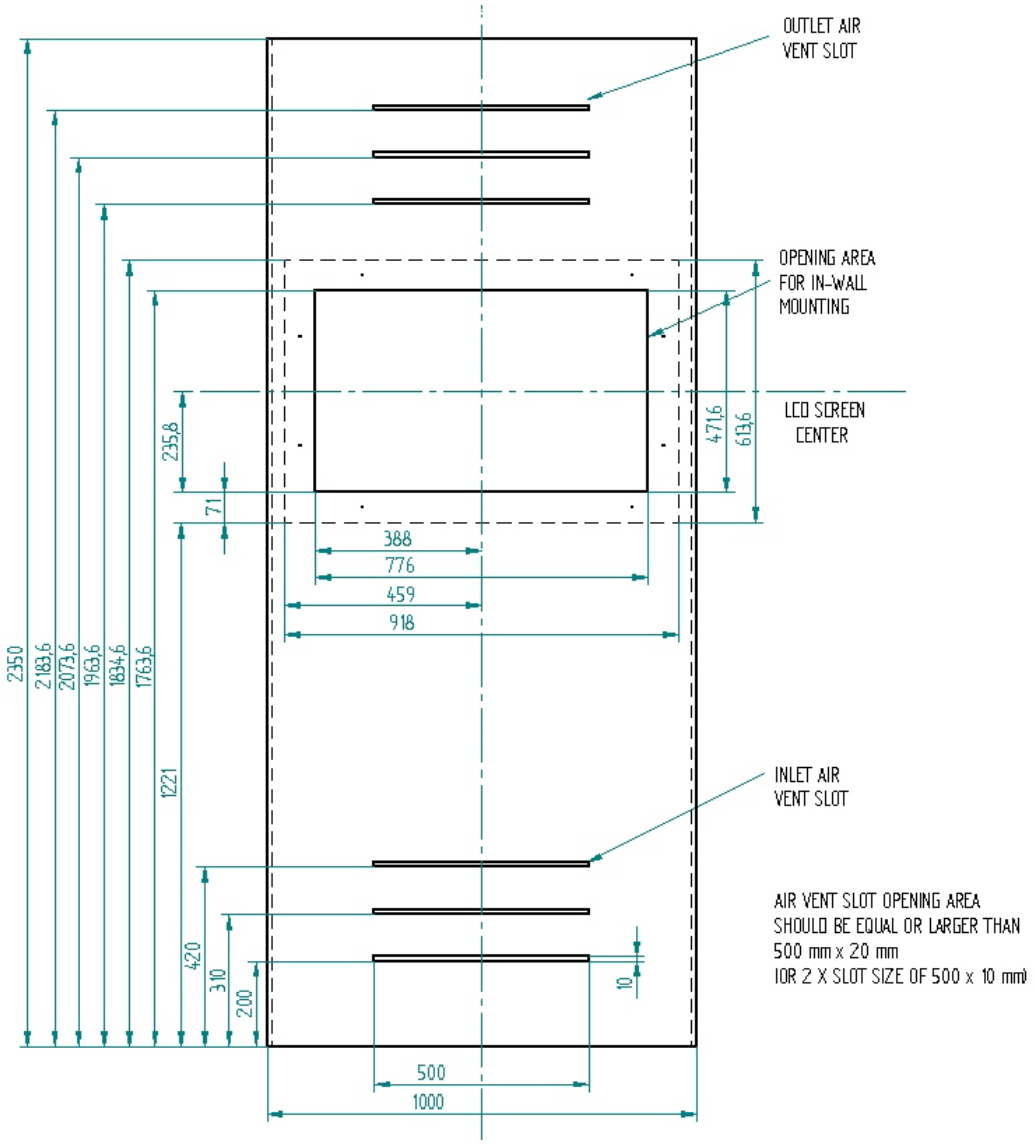
3. 32” landscape mirror TV in-wall mouting (pg. 1/2)

Note: If you are considering mounting the 32PM8822 landscape mirror TV in an in-wall installation, the installation must conform to all applicable safety requirements. Additionally, the installation must conform to the ventilation requirements as described below.



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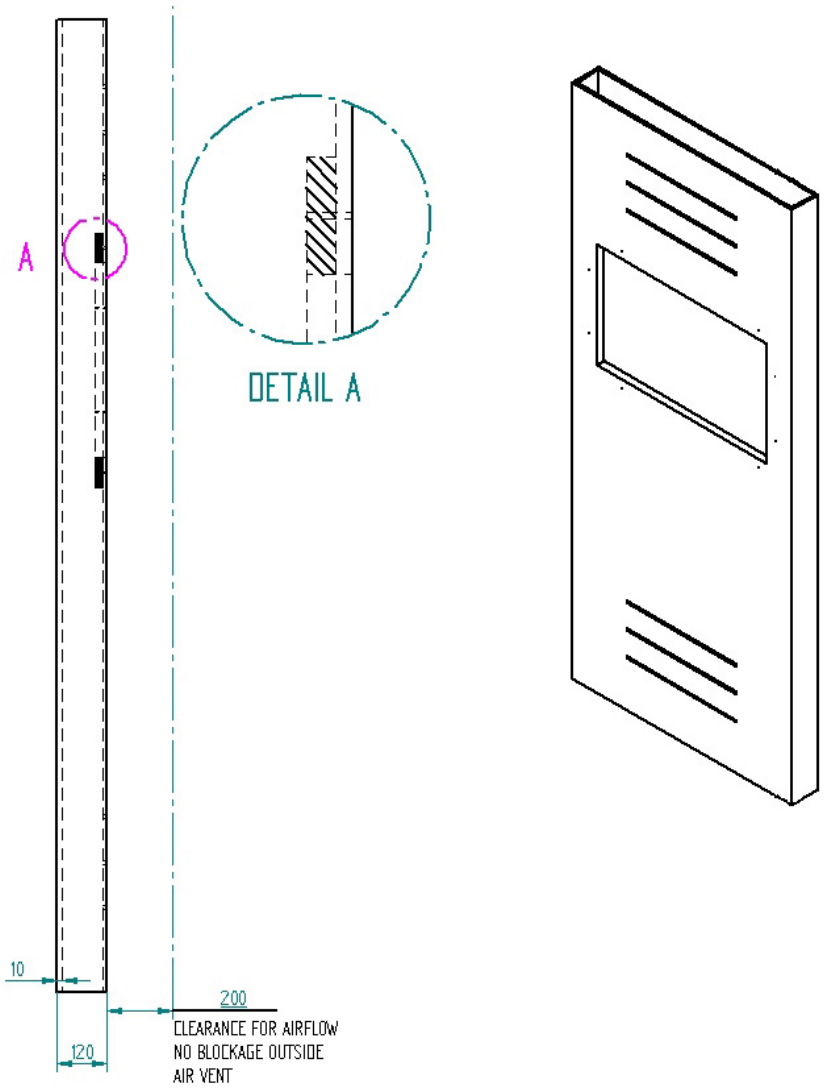
3. 32” landscape mirror TV in-wall mouting (pg. 2/2)



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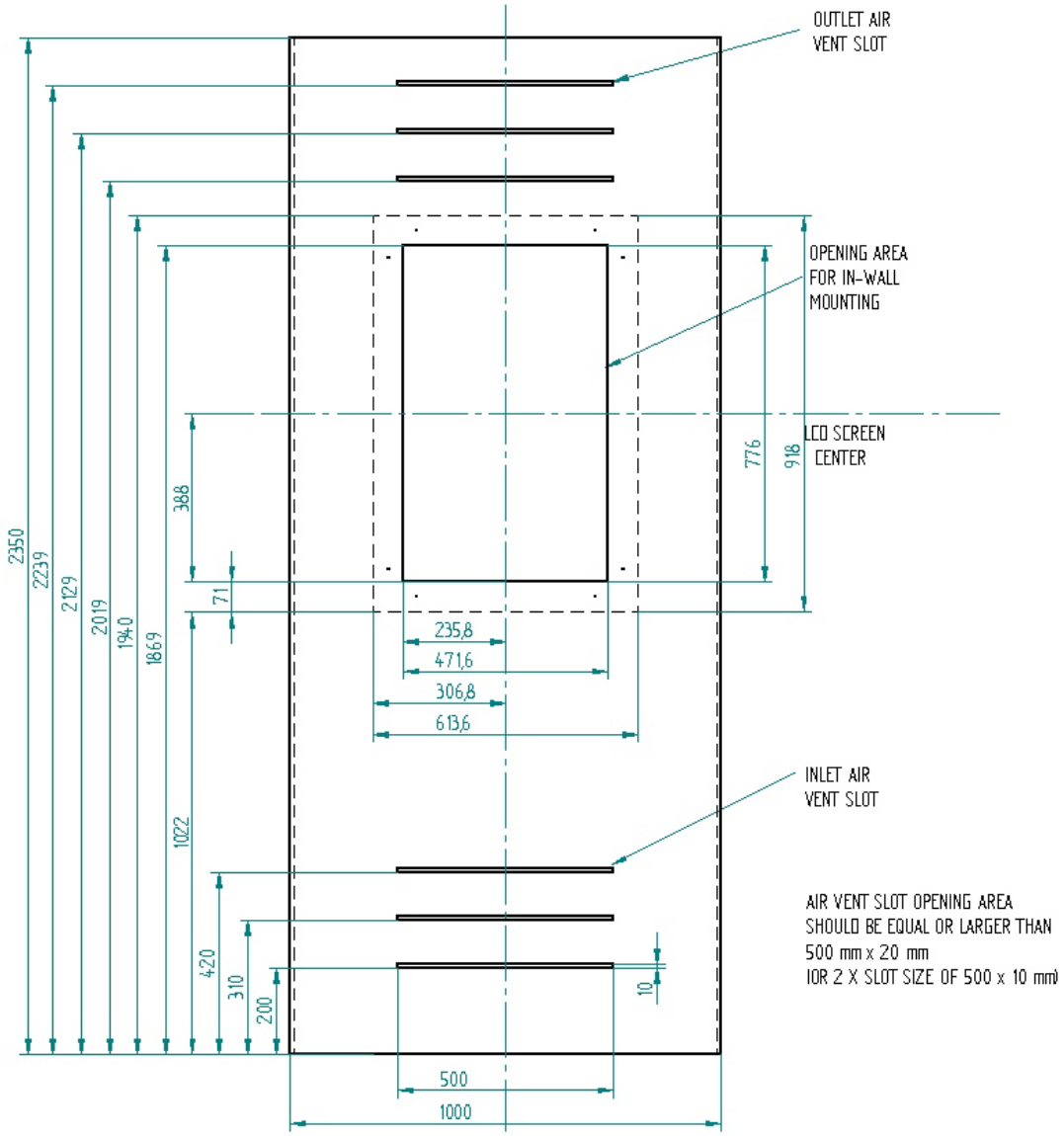
4. 32" portrait mirror TV in-wall mouting (pg. 1/2)

Note: If you are considering mounting the 32PM8822 landscape mirror TV in an in-wall installation, the installation must conform to all applicable safety requirements. Additionally, the installation must conform to the ventilation requirements as described below.



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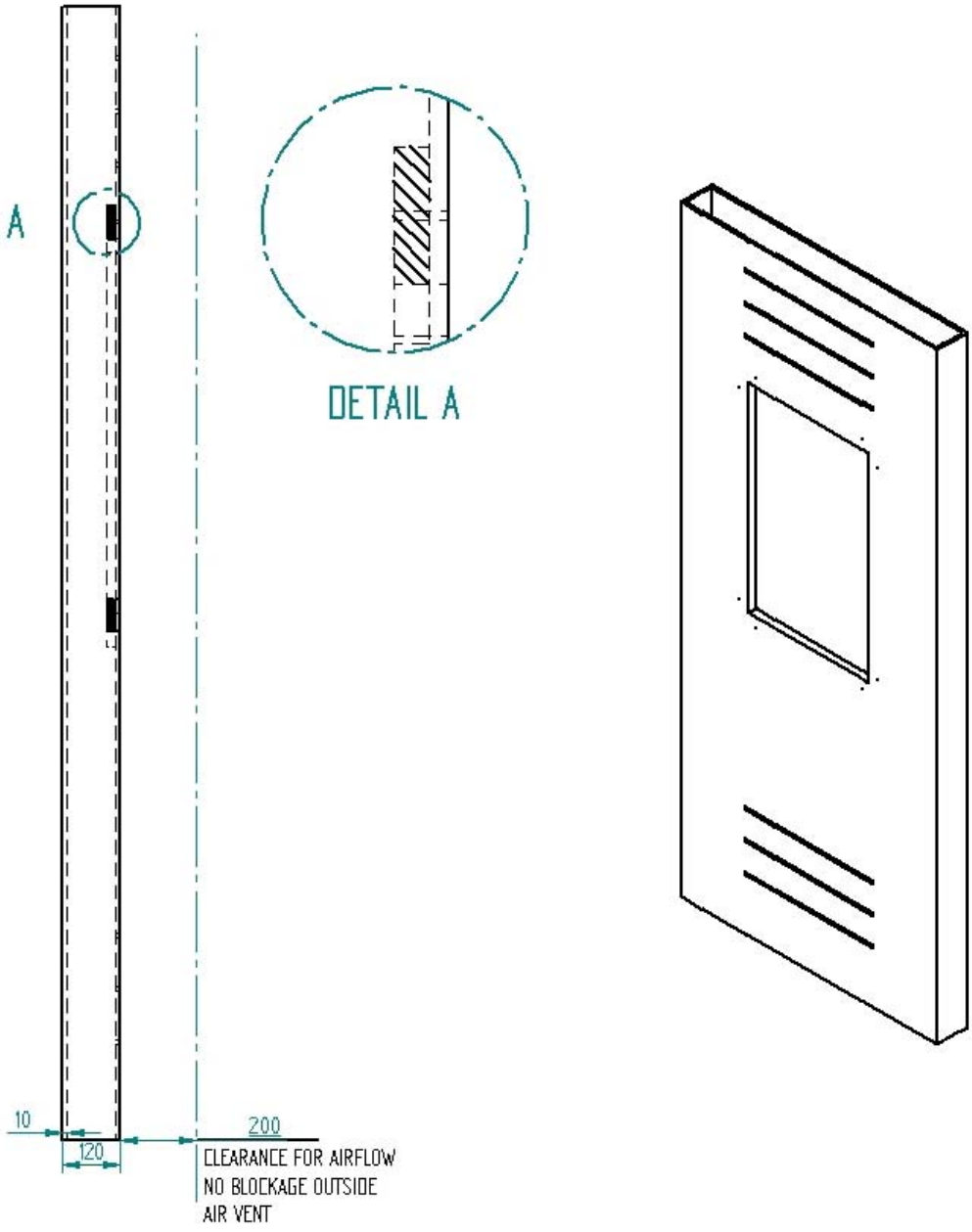
4. 32” portrait mirror TV in-wall mouting (pg. 2/2)



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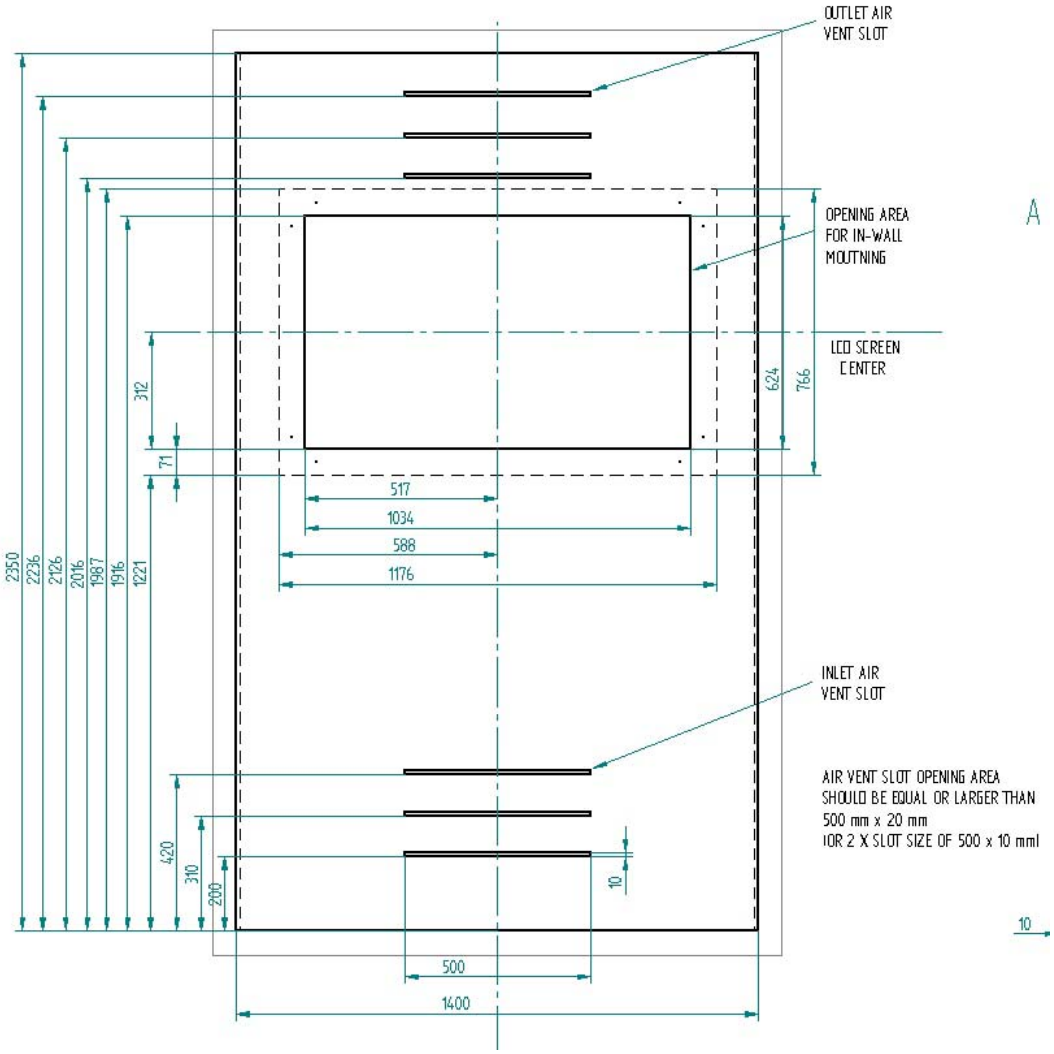
5. 42" landscape mirror TV in-wall mouting (pg. 1/2)

Note: If you are considering mounting the 42PM8822 landscape mirror TV in an in-wall installation, the installation must conform to all applicable safety requirements. Additionally, the installation must conform to the ventilation requirements as described below.



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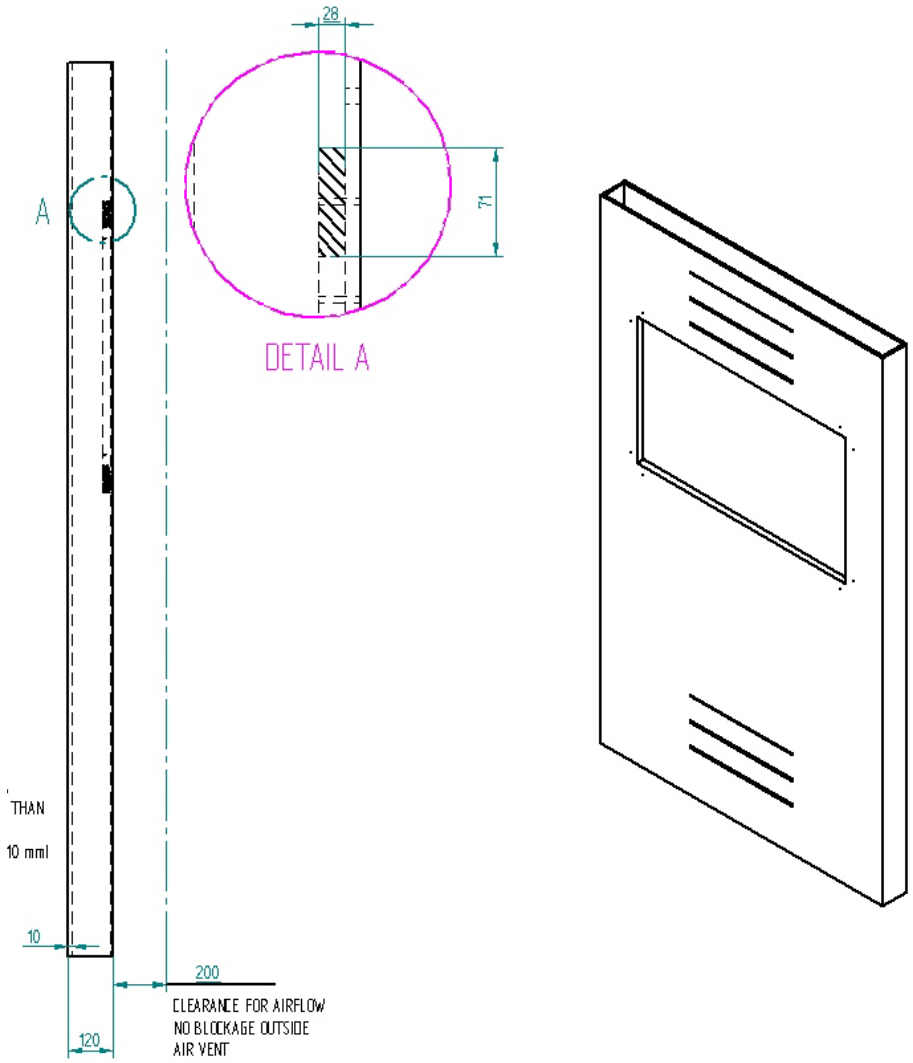
5. 42” landscape mirror TV in-wall mouting (pg. 2/2)



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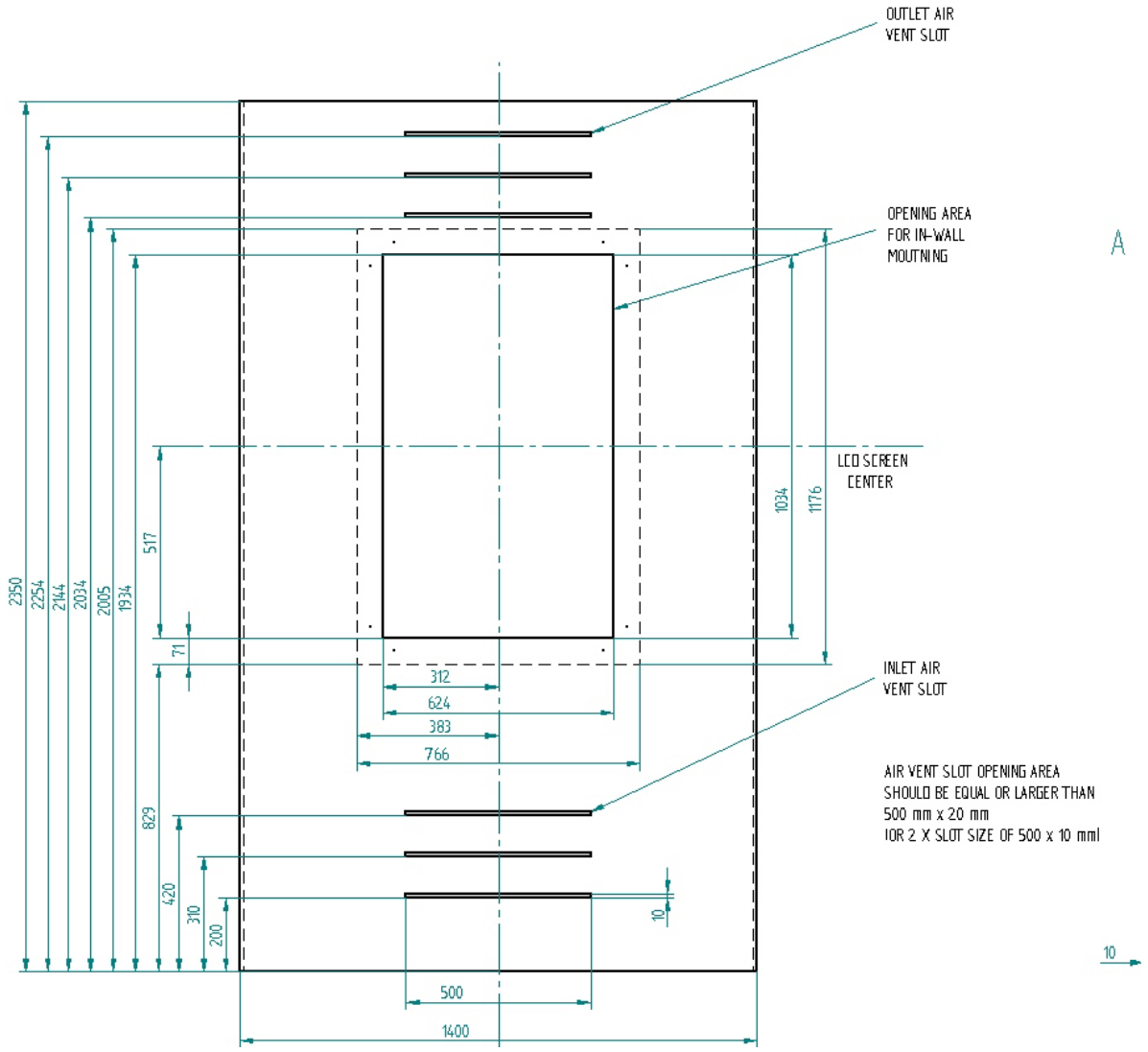
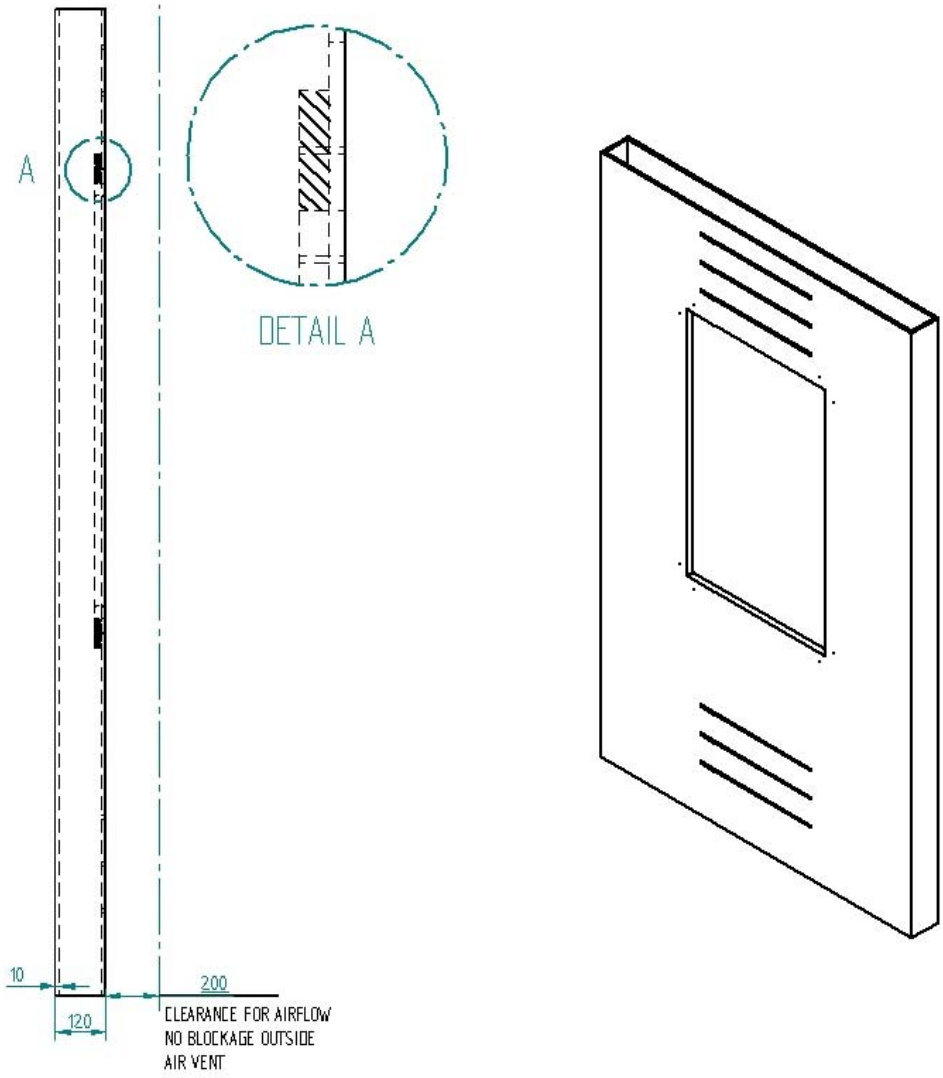
6. 42” portrait mirror TV in-wall mouting (pg. 1/2)

Note: If you are considering mounting the 42PM8822 landscape mirror TV in an in-wall installation, the installation must conform to all applicable safety requirements. Additionally, the installation must conform to the ventilation requirements as described below.



6. 42” portrait mirror TV in-wall mouting (pg. 2/2)



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Annex E Cable Management for Mirror TV

MiraVision TVs allow many connection possibilities, and it is important to pay close attention to cable management considerations when selecting a location for installing the Mirror TV. Installers who have experience with wall-mounted large screen flat TVs (such as plasma TVs) should be familiar with routing the cables for such sets, and can apply their knowledge to the Mirror TV as well.

The types of cables used will depend on the connections required. These can include the power supply, antenna, SCART or cinch connectors, and VGA cables (when the Mirror TV set is used as a computer display). Other cables can also be collected in a similar way (example, cabling for external loudspeakers).

Additional Remarks about Cable Management

- It is possible to use cable drains/ducts, but there may be some restrictions.
    - Depending on the connections required, the cable drain may need to be large. Select the cable drain size based on the number of cables needed, and whether plugs have to be passed through it during installation.
    - A cable drain would be applied on the wall in the middle of the screen, but this can be difficult for some thick cables because they do not leave the Mirror TV in the middle. Such cables need to be 'flexed' considerably to enter the cable drain.
- Using a bigger (or wider) decorative frame will make it easier to conceal the cables (or to bend them less severely).
- Thin and flexible cables should be applied when possible.
- The holes in the wall behind the Mirror TV should not extend beyond the outer dimensions of the screen (including the decorative frame).
- If a hole is not made in the wall, then the external speaker wiring should be black in colour, in order not attract undue attention.
- For European models, using the 90-degree connector for the SCART interface may not be possible if the connector surface is against the wall. If a hole were made in the wall, then it would be possible to mount the Mirror TV without having the connector fall out (or loosen).

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